

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

K-1812

Applicant : Hideo Sugiyama et al.  
Title : LIGHT TRANSMISSION TUBES  
Serial No. : ~~09/292,463~~ / 761,584  
Filed : April 15, 1999  
Group Art Unit : 2872  
Examiner : Jon W. Henry

Hon. Commissioner of Patents and Trademarks  
Washington, D. C. 20231

January 18, 2001

PRELIMINARY AMENDMENT

Sir:

Preliminary to examination, please amend the application, as follows:

IN THE SPECIFICATION

Page 1, line 1, delete "Light Transmission Tubes and";  
line 2, delete "the";  
line 4, delete "light transmission";  
line 5, delete "tubes and" and "the";  
line 10, delete "light transmission";  
line 11, delete "tubes and" and "said".  
Page 2, line 12, change "people have" to --it has been--.  
Page 3, line 8, change "not" to --nor--;  
line 9, change "occur" to --enters--.  
Page 4, line 3, delete "the".  
Page 5, line 7, delete "a"(second occurrence);  
line 16, change "have" to --is--.  
Page 7, lines 3-4, 11, 15 and 20, delete "a light transmission tube and";

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Prelim. Amndt  
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a



line 3, change "color" to --material--;  
 line 9, change "coverring" to --covering--;  
 line 17, change "A-A" to --2-2--.  
 Page 27, line 1, change "V-V" to --5-5--;  
 line 3, change "VI-VI" to --6-6--;  
 line 17, change "C-C" to --9c-9c--;  
 line 25, change "XC-" to --10c-10c--.  
 Page 28, line 1, delete "XC";  
 lines 2-3, change "XD-XD" to --10d-10d--;  
 lines 7-8, change "XIB-XIB" to --11b-11b--;  
 lines 9-10, change "XIC-XIC" to --11c-11c--;  
 line 10, change "11a" to --11b--.  
 Page 29, lines 21-25, delete "a"(all occurrences).  
 Page 30, line 1, delete "a"(first occurrence);  
 lines 3, 5, 7, 8, 16, 19, 21 and 25, delete "a"(all  
 occurrences);  
 line 4, delete "a"(second and third occurrences);  
 line 6, delete "an"(all occurrences);  
 line 7, delete "an";  
 line 17, delete "a"(second and third occurrences);  
 line 18, delete "a"(second occurrence);  
 line 20, delete "a"(second occurrence);  
 line 21, delete "an";  
 line 22, delete "a"(second and third occurrences);  
 line 23, delete "a"(second occurrence);  
 line 24, delete "a"(first occurrence).  
 Page 31, lines 6 and 9, change "(meta)" to --meta--;  
 line 7, delete "an"(second to fourth occurrences);  
 lines 12, 13 and 20, delete "an";  
 line 12, delete "a"(second occurrence);  
 line 16, delete "a"(first occurrence);  
 lines 21 and 22, delete "a".  
 Page 32, line 8 from the bottom, delete "an" and "a".  
 Page 33, lines 1 and 2, change "scatterring"(all occurrences) to  
 --scattering--.

line 7, change "BaSO4" to --BaSO<sub>4</sub>--.

Page 34, line 13, delete "a";  
line 14, delete "a"(first and third occurrences);  
line 15, delete "a"(first occurrence);  
lines 15, 17, 19, 20 and 23, change "(meta)" to --meta--.

Page 35, line 1, change "scatterring" to --scattering--;  
line 8, delete "a" and "an";  
line 24, change 'are" to --is--.

Page 36, lines 22-25, delete "a"(all occurrences).

Page 37, line 1, delete "an"(both occurrences);  
line 8, change "color" to --material--.

Page 40, lines 1 and 7 after table 1, change "scatterring" to --scattering--.

Page 41, line 3, change "a"(first occurrence) to --an--.

Page 42, lines 8 and 17, change "color" to --material--;  
line 14, delete "a".

Page 43, line 4 from the bottom, change "a"(first occurrence) to --an--.

Page 45, line 9, change "V-V line" to --5-5--;  
lines 10-11, change "VI-VI line" to --6-6 line--.

Page 46, lines 10, 11, 15, 16, 22 and 23, delete "a"(all occurrences);  
line 6, delete "a"(second occurrence);  
line 7, delete "a"(second and third occurrences);  
lines 8 and 16, change "(meta)" to --meta--;  
line 8, delete "a"(second occurrence);  
lines 9, 15 and 16, delete "an";  
line 12, delete "a"(first and second occurrences);  
line 21, delete "a"(second occurrence);  
line 24, delete "a"(first and third occurrences);  
line 25, delete "a"(first and second occurrences).

Page 47, line 1, delete "a"(first and second occurrences);  
line 2, delete "a"(second occurrence);  
line 3, delete "a"(first and second occurrences);

lines 4, 6 and 8, delete "a"(all occurrences);  
 line 5, delete "a"(first occurrence) and "an";  
 lines 6 and 7, delete "an";  
 line 7, delete "a"(second and third occurrences);  
 line 13, delete "a"(second occurrence);  
 line 14, delete "a"(first and third occurrences);  
 line 15, delete "a"(first occurrence);  
 lines 15 and 17, change "(meta)" to --meta--.  
 Page 48, lines 21 and 25, change "not any" to --no--.  
 Page 50, line 18, delete "a"(third occurrence);  
 line 19, delete "an";  
 lines 22 and 23, change "scatterring" to --scattering--;  
 line 25, change "coverring" to --covering--.  
 Page 51, lines 9 and 14, change "color"(all occurrences) to --  
 material--;  
 line 13, change "scatterring" to --scattering--;  
 line 21, change "coverring" to --covering--;  
 line 24, change "index" to --indexes--.  
 Page 52, line 25, delete "a".  
 Page 53, line 6, after "described" add --methods--;  
 line 9, change "color" to --material--.  
 Page 54, lines 12 and 13, delete "a"(all occurrences);  
 line 14, delete "an" and "a"(second and third  
 occurrences);  
 line 15, change "a"(first occurrence) to --an--.  
 Page 56, line 1, change "are forming a" to --forms an--;  
 line 6, change "a" to --an--.  
 Page 57, line 5, change "are" to --is--;  
 line 24, change "IXc-IXc" to --9c-9c--.  
 Page 58, line 2, change "coverring" to --covering--;  
 line 4, change "windingspirally" to --wound spirally--;  
 line 16, change "that" to --those--;  
 line 18, change "not any" to --no--.  
 Page 59, line 22, after "times" add --relative to--.  
 Page 60, line 9, change "Fig. 9" to --Figs. 9a-9c--;

lines 9 and 10, change "color" to --material--;  
line 21, change "coverring" to --covering--.  
Page 62, lines 23-24, change "a line Xc-Xc" to --line 10c-10c--;  
line 25, change "a line Xd-Xd" to --line 10d-10d--.  
Page 63, line 2, change "coverring" to --covering--;  
line 8, after "other" add --)--;  
line 19, change "not any" to --no--.  
Page 65, line 5, change "Fig. 9" to --Figs. 10a-10d--;  
lines 5 and 6, change "color" to --material--;  
line 17, change "coverring" to --covering--.  
Page 68, line 19, change "an XIB-XIB line" to --line 11b-11b--;  
line 21, change "an XIC-XIC line" to --line 11c-11c--.  
Page 69, line 16, change "near andfacing" to --located near--;  
line 18, delete "on"(first occurrence);  
line 22, change "on to" to --onto--;  
line 24, change "having to use" to --using--.  
Page 71, line 15, after "described" add --position--.  
Page 72, lines 14 and 15, change "color" to --material--.  
Page 73, line 1, change "coverring" to --covering--.  
Page 74, lines 6-7, change "in which" to --as--;  
line 23, change "on to" to --onto--.  
Page 75, lines 3 and 18, change "on to" to --onto--.  
Page 76, lines 3, 6 and 8, delete "a"(all occurrences);  
line 5, delete "the"(first occurrence);  
line 7, delete "an".

#### IN THE CLAIMS

Please cancel claims 1-6, 12, 14, 16, 17, 19-23, 25 and 26, and amend claims 7, 9, 10, 11, 13, 15, 18 and 24, as follows:

Claim 7, lines 3, 7, 11 and 16, change "scatterring" to --scattering--;

line 7, change "the" to --a--.

Claim 9, line 2, change "characterized in that" to --wherein--;

line 3, change "color" to --material--;

line 9, change "the"(first occurrence) to --a--;

line 12, change "the" to --an--;

line 15, change "coverring" to --covering--.

Claim 10, lines 2, 4 and 5, delete "(" and ")", respectively;

line 3, delete "a"(both occurrences).

Claim 11, line 2, change "the" to --an--.

Claim 13, line 2, change "of claim 1, characterized in that" to --wherein--;

line 3, change "color" to --material--;

line 11, delete "a plurality of" and change "layers" to --layer--;

line 14, change "coverring" to --covering--, and delete "the"(second occurrence);

line 15, delete "plurality of" and change "layers" to --layer--.

Claim 15, line 2, change "14" to --13--, and change "characterized in that" to --wherein--;

lines 3-15, delete "a multi-color.....a manner such that the".

Claim 18, line 2, change "16" to --13--, and change "characterized in that" to --wherein--;

lines 3-15, change "a multi-color.....with the" to --an--;

line 16, change "being" to --is--.

Claim 24, line 2, change "19" to --13--, and change "characterized in that" to --wherein--;

lines 3-15, change "a multi-color.....with the" to --an--;

line 16, change "the"(first occurrence) to --a--, and change "being" to --is--.

Please add new claim 27, as follows:

27. A method of manufacturing a light transmission tube of claim 13, wherein said belt-like reflecting layer includes a plurality of layers formed on the outer surface of the solid cylindrical core member.

### IN THE ABSTRACT

Please change the abstract, as attached herewith.

IN THE TITLE

Please change the title to --METHOD OF MANUFACTURING LIGHT TRANSMISSION TUBES--.

## REMARKS

In filing a divisional application, clerical errors of the specification and claims have been amended.

Respectfully submitted,

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by

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## Abstract of the Disclosure

In manufacturing a light transmission tube, light scattering particles are dispersed in a core section formation section containing a monomer to be polymerized to form a core section, and a core section formation solution is introduced into a tubular clad. The tubular clad is placed in a horizontal position to cause the light scattering particles to precipitate onto a lower surface within the clad. Then, polymerization and solidification of the core section formation solution is conducted in the clad. Thus, a belt-like reflecting layer including the light scattering particles are located between the tubular clad and the core section in the longitudinal direction of the tubular clad.

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Hon. Commissioner of Patents and Trademarks  
Washington, D. C. 20231

January 18, 2001

PROPOSED DRAWING CORRECTION


Sir:

In Fig. 1, change "A-A" to --2-2--;  
In Fig. 4, change "V-V" to --5-5--;  
In Fig. 5, change "VI-VI" to --6-6--;  
In Fig. 9a, change "IXc-IXc" to --9c-9c--;  
In Fig. 10a, change "Xc-Xc" to --10c-10c--, and change "Xd-Xd"  
to --10d-10d--;  
In Figs. 10a, 10c and 10d, change "1" to --1'''--;  
In Fig. 11a, change "XIb-XIb" to --11b-11b-;  
In Fig. 11b, change "XIc-XIc" to --11c-11c--.

REMARKS

Formalities of the drawings have been amended. The corrections  
are indicated in red in the attached copies thereof.

Respectfully submitted,  
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FIG. 1

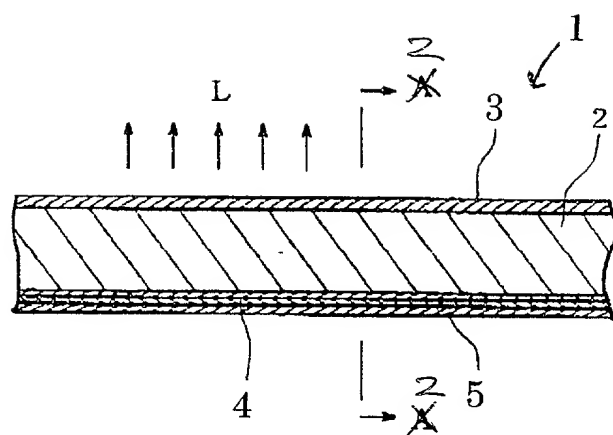


FIG. 4

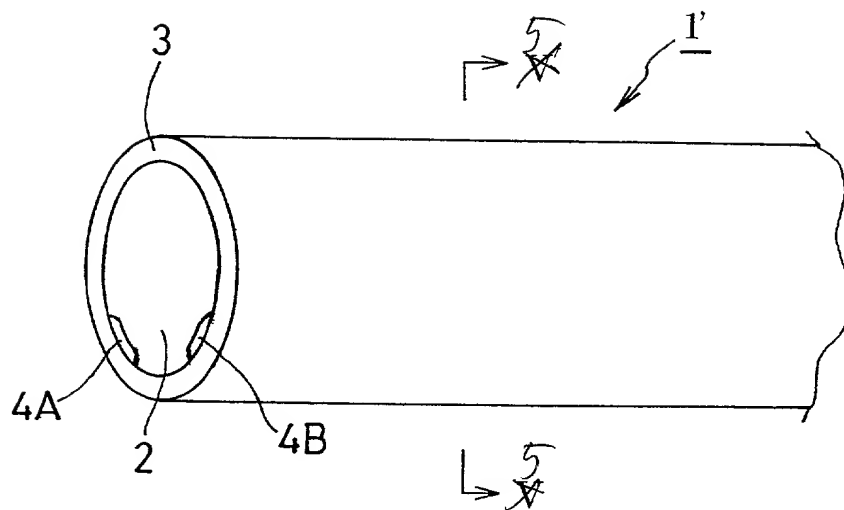


FIG. 5

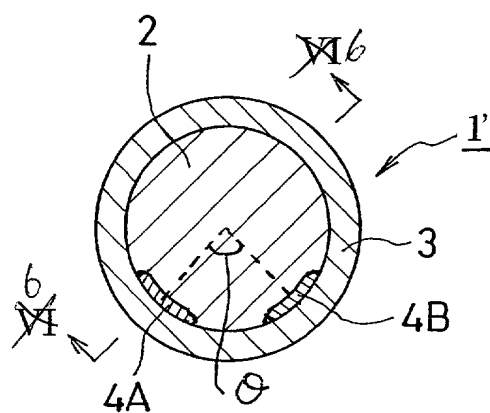
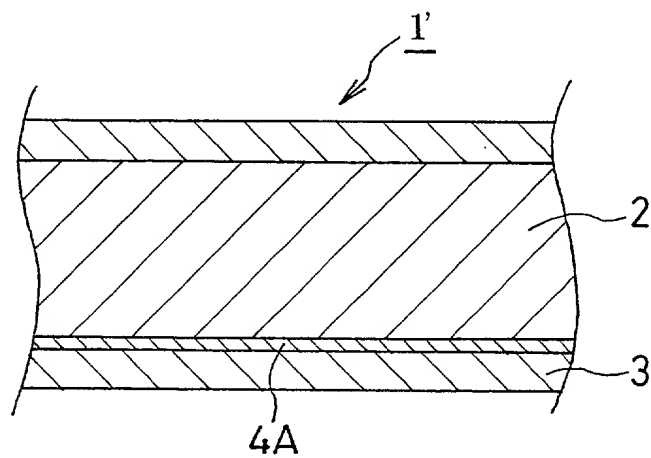


FIG. 6



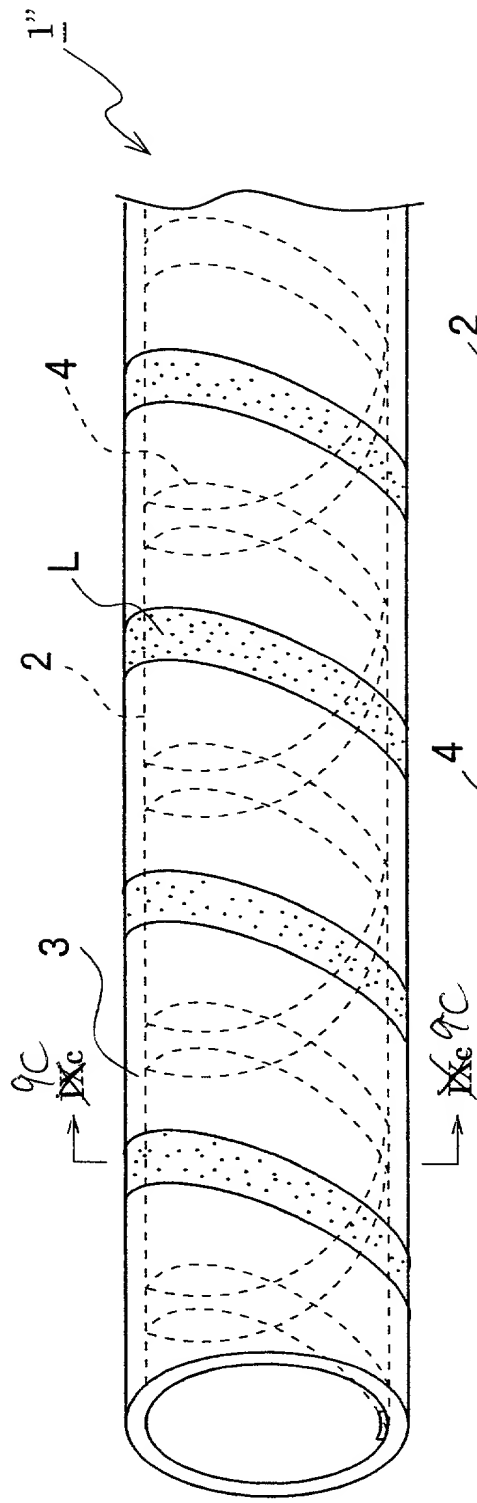


FIG. 9a

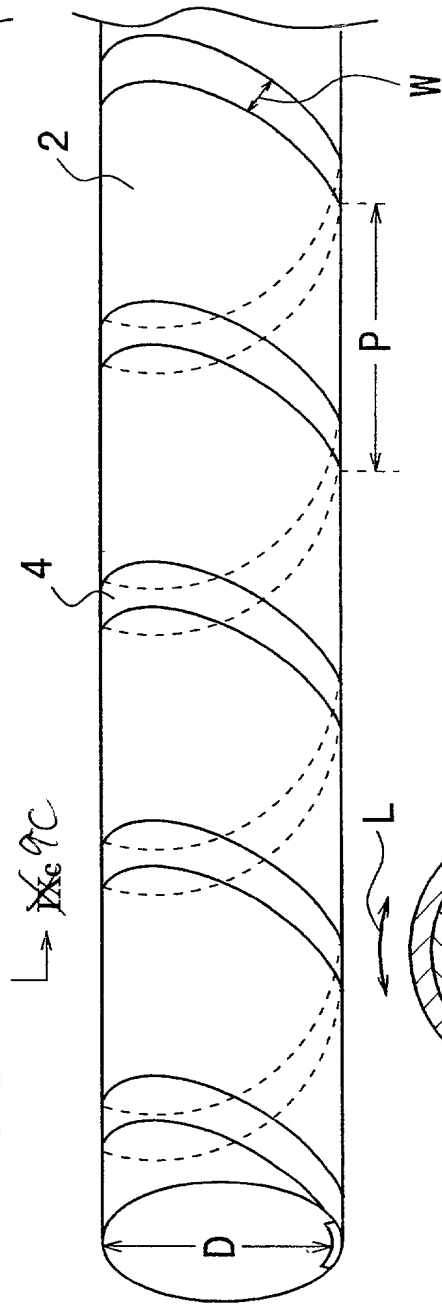


FIG. 9b

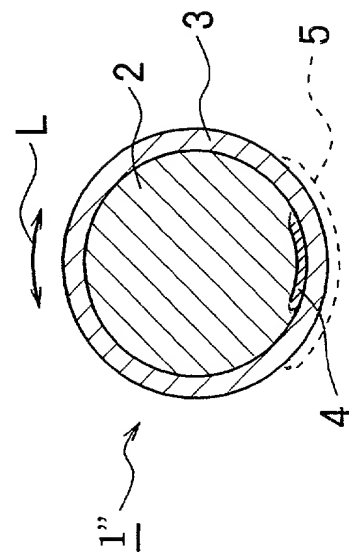


FIG. 9c

FIG. 10a

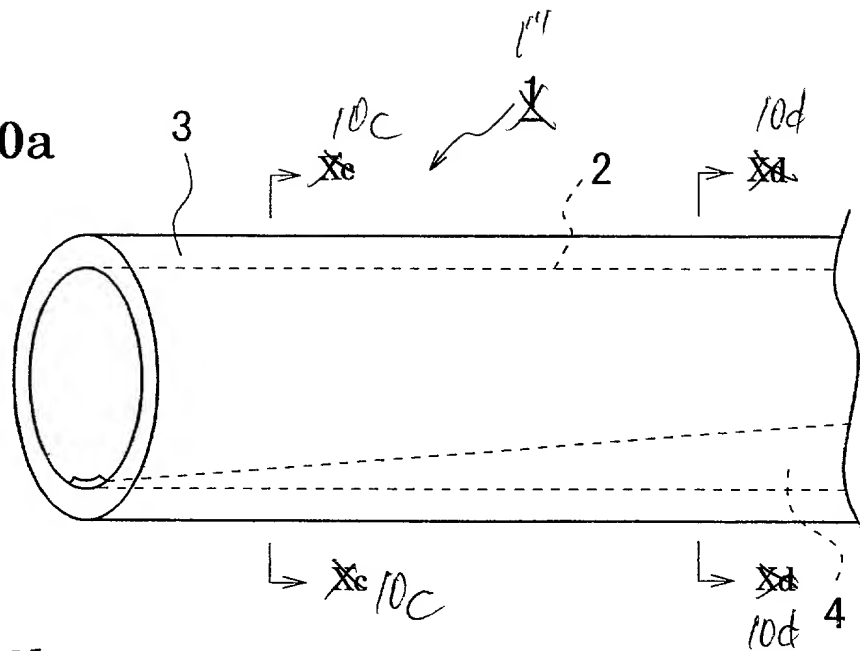


FIG. 10b

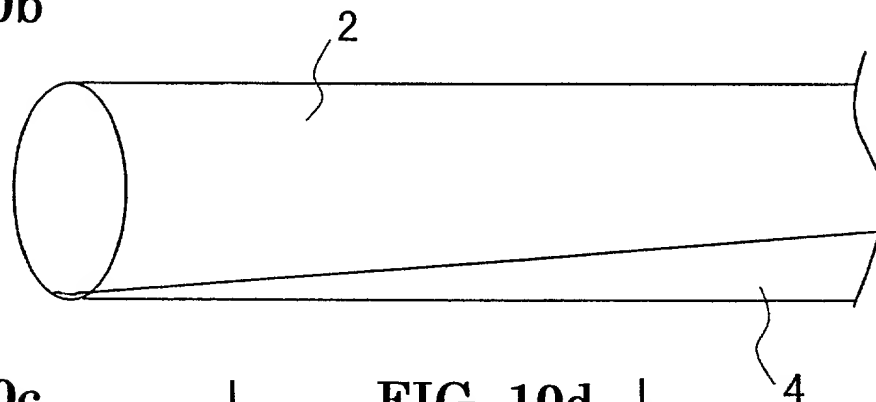


FIG. 10c

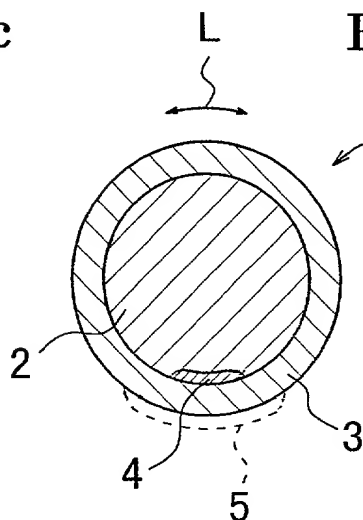


FIG. 10d

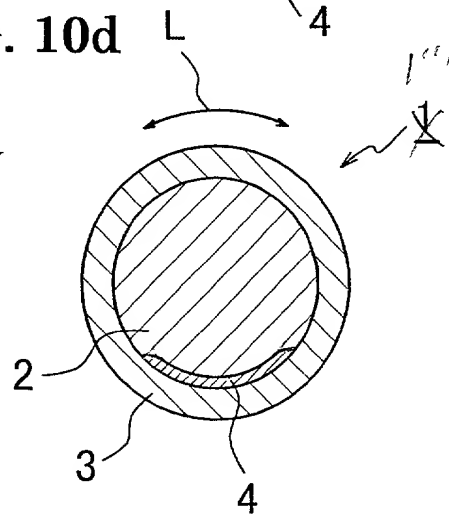
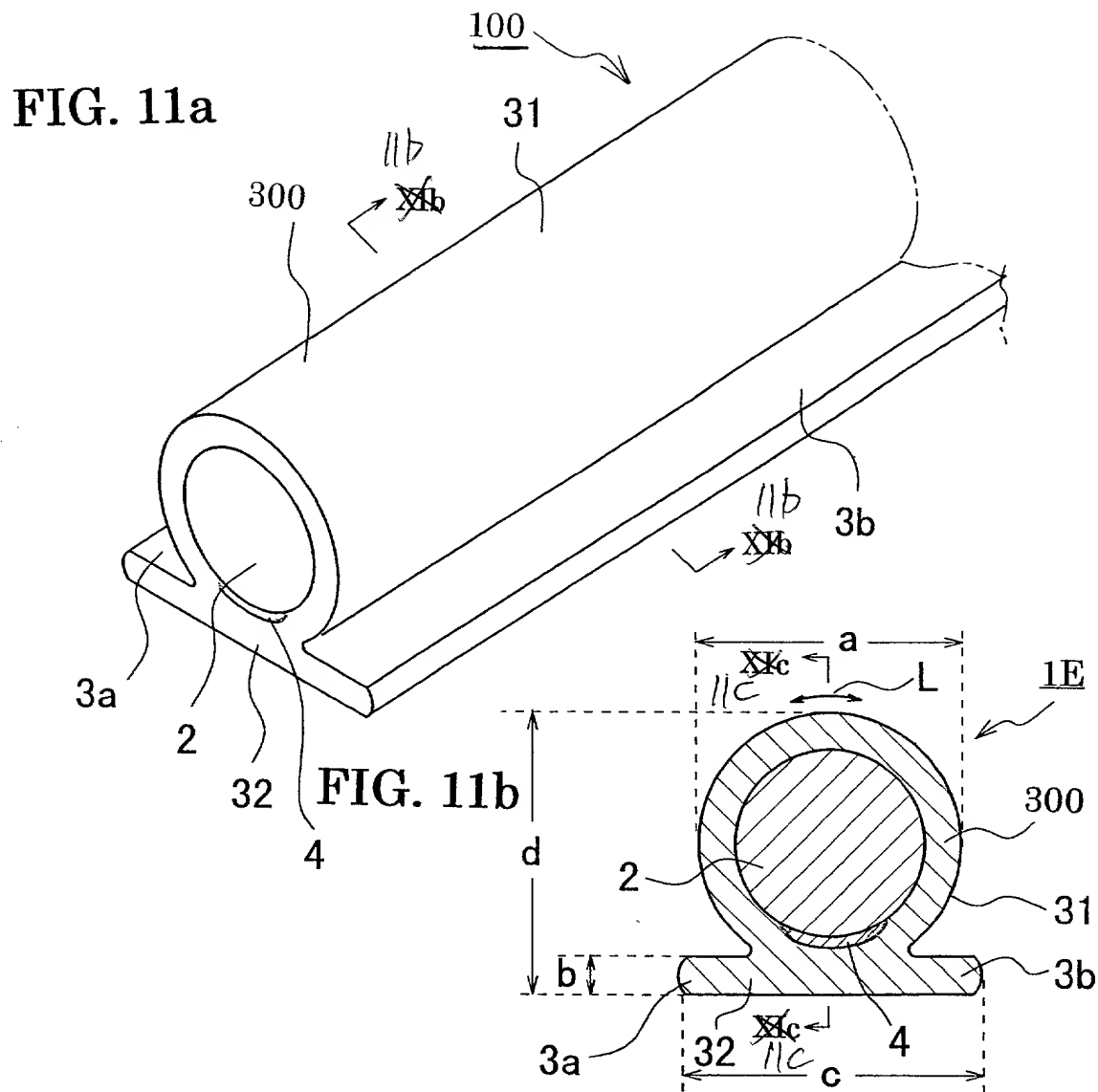


FIG. 11a



**FIG. 11c**

